

## CLAIMS

1. Actuating device (18) for a clutch (6) of a motor vehicle (2) which comprises one electric motor (34), one gearing (36, 40, 42, 44), which converts the rotational motion of the electric motor (34) to a translatory motion, and one accumulator (52), characterized in that the converter gearing comprises one recirculating ball spindle (44) and the accumulator (52) is situated at least partly within the recirculating ball spindle (44).

2. Actuating device (18) according to claim 1, characterized in that the recirculating ball spindle (44) is made hollow.

3. Actuating device (18) according to claim 1 or 2, characterized in that the accumulator comprises at least one coil spring (52).

4. Actuating device (18) according to claim 3, characterized in that the accumulator is formed by several coil springs (52).

5. Actuating device (18) according to claim 4, characterized in that the multiple coil springs (42) are designed radially nested.

6. Actuating device (18) according to any one of claims 1 to 5, characterized in that the external diameter of the accumulator (52) is essentially equal to the internal diameter of the recirculating ball spindle (44).

7. Actuating device (18) according to claim 1 or 2, characterized in that in a fluid-actuated clutch (6) which comprises one master cylinder for the fluid on the actuator device (18), one slave cylinder for the fluid on the clutch (6) and one fluid pipe therebetween, the recirculating ball spindle (44) forms the master cylinder.

8. Actuating device (18) according to any one of claims 1 to 7, characterized in that within the recirculating ball spindle (44) are situated at least parts (58, 60) of one displacement sensor (56).

9. Utilization of a hollow recirculating ball spindle (44) for accommodating parts (52, 58, 60) of an actuating device (18) to be operated with the recirculating ball spindle (44) within the hollow recirculating ball spindle (44).

10. Utilization of a hollow recirculating ball spindle (44) according to claim 9, characterized in that the actuating device is an actuating device (18) for the clutch (6) of a motor vehicle (2).